

**INFORMATION  
DISCLOSURE  
STATEMENT**

Atty. Docket No.: 57160US002

Serial No.: 10/034,642

Applicant(s): Castro et al.

Confirmation No.: 9543

Filing Date: 28 December 2001

Group: 3732

**U.S. PATENT DOCUMENTS**

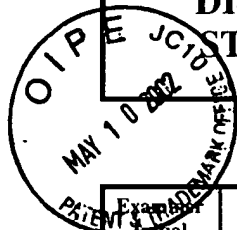
Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
GBR	Re28,889	07/06/76	Wildman			
GBR	2,926,422	03/01/60	Wallshein			
GBR	3,026,210	03/20/62	Coble			
GBR	3,181,240	05/04/65	Kerhart et al.			
GBR	3,423,833	08/15/67	Pearlman			
GBR	3,464,837	10/01/64	McLean et al.			
GBR	3,541,688	11/24/70	McLean et al.			
GBR	3,578,744	05/18/71	Wildman			
GBR	3,732,087	05/08/73	Grossman			
GBR	3,842,503	10/22/74	Wildman			
GBR	4,097,935	07/04/78	Jarcho			
GBR	4,216,583	08/12/80	Reynolds			
GBR	4,219,617	08/26/80	Wallshein			
GBR	4,264,541	04/28/81	Oda et al.			
GBR	4,285,732	08/25/81	Charles et al.			
GBR	4,310,306	01/12/82	Wallshein			
GBR	4,321,042	03/23/82	Scheicher			
GBR	4,322,206	03/30/82	Reynolds			
GBR	4,431,420	02/14/84	Adair			
GBR	4,460,336	07/17/84	Smith et al.			
GBR	4,544,359	10/01/85	Waknine			
GBR	4,575,805	03/11/86	Moermann et al.			
GBR	4,595,598	06/17/86	De Luca et al.			
GBR	4,681,538	07/21/87	De Luca et al.			
GBR	4,797,238	01/10/89	Rhodes et al.			

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GBR	4,837,732	06/06/89	Brandestini et al.			
GBR	4,878,840	11/07/89	Reynolds			
GBR	4,927,361	05/22/90	Smith et al.			
GBR	4,954,080	09/04/90	Kelly et al.			
GBR	4,968,459	11/06/90	Sernetz			
GBR	5,011,403	04/30/91	Sadoun et al.			
GBR	5,066,225	11/19/91	Forbes Jones et al.			
GBR	5,096,862	03/17/92	Mathers et al.			
GBR	5,231,062	07/27/93	Mathers et al.			
GBR	5,242,298	09/07/93	Sernetz			
GBR	5,244,849	09/14/93	Roy et al.			
GBR	5,358,402	10/25/94	Reed et al.			
GBR	5,376,606	12/27/94	Kim et al.			
GBR	5,380,196	01/10/95	Kelly et al.			
GBR	5,382,556	01/17/95	Takahashi et al.			
GBR	5,439,379	08/08/95	Hansen			
GBR	5,441,408	08/15/95	Moschik			
GBR	5,587,346	12/24/96	Zuk			
GBR	5,627,116	05/06/97	Zuk			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
GBR	DE 1 228 754	06/01/67	Germany (English language abstract included)				X
GBR	DE 1 541 219	01/28/70	Germany			X	

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GBR	DE 2 039 226	03/25/71	Germany (English language abstract unavailable, US patent family members Re 28,889; 3,578,744; 3,842,503 included)				X
GBR	DE 2 328 213	01/03/74	Germany			X	
GBR	DE 25 54 145	06/08/77	Germany				X
GBR	EP 0 160 481 B2	11/06/85	EPO				
GBR	EP 0 161 831 B1	11/21/85	EPO				
GBR	EP 0 284 418 B1	03/25/88	EPO				
GBR	EP 0 430 654 B1	11/28/90	EPO				
GBR	EP 1 070 484 A2	01/24/01	EPO				
GBR	WO 93/07830 A1	04/29/93	PCT (English language abstract included)				
GBR	WO 01/15620 A1	03/08/01	PCT				

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Document Description
GBR	American Society of Testing Materials, "ASTM-D2805-95, Standard Test Methods for Hiding Power of Paints by Reflectometry," <u>Annual Book of ASTM Standards</u> , pgs. 307-311 (1995).
GBR	American Society of Testing Materials, "ASTM-E384-99, Test Methods for Microhardness of Materials," <u>Annual Book of ASTM Standards</u> , pgs. 409-432 (1999).
GBR	Bruch, "Preparation of Translucent Alumina From Powder," pgs. 1-19
GBR	Carniglia, "Reexamination of Experimental Strength-vs-Grain Size Data for Ceramics," <i>Journal of American Ceramic Society</i> , 1972; Vol. 55, Issue 5: pgs. 243-249.
GBR	DIN EN 1184 "Materials and Articles in Contact with Foodstuffs: Test Methods for Translucency of Ceramic Articles" (August, 1997).
GBR	Ishitobi, et al., "Fabrication of Translucent Al <sub>2</sub> O <sub>3</sub> by High Pressure Sintering," <i>Ceramic Bulletin</i> , 1977; Vol. 56, No. 6: pgs. 556-558.

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GBR	Jacobson, "Fracture Characteristics, Hardness, and Grain Size of Five Polycrystalline Alumina Orthodontic Brackets," Thesis Abstract, <i>American Journal of Orthodontics and Dentofacial Orthopedics</i> , 2001, July; Vol. 120, Issue 1, pgs. 92-93.
GBR	Jeppesen, "Some Optical, Thermo-Optical, and Piezo-Optical Properties of Synthetic Sapphire," <i>Journal of the Optical Society of America</i> , 1958; Vol. 48, No. 9: pgs. 629-632.
GBR	Lynch, "Table 3-2 -Physical, Mechanical, Thermal, and Electrical Properties of Alumina," <i>Chemical Rubber Company Handbook of Materials Science</i> , 1974, pgs. 358-361.
GBR	Malitson, "Refraction and Dispersion of Synthetic Sapphire," <i>Journal of the Optical Society of America</i> , 1962; Vol. 52, No. 12: pgs. 1377-1379.
GBR	Mendelson, "Average Grain Size in Polycrystalline Ceramics," <i>Journal of the American Ceramic Society</i> , 1969; Vol. 52, Issue 8: pgs. 443-446.
GBR	Mizuta, "Preparation of High-Strength and Translucent Alumina by Hot Isostatic Pressing," <i>Journal of American Ceramic Society</i> , 1992; Vol. 75, Issue 2: pgs. 469-473.
GBR	Passmore, et al., "Strength-Grain Size-Porosity Relations in Alumina," <i>Journal of American Ceramic Society</i> , 1965; Vol. 48, Issue 1: pgs. 1-7.
GBR	Pham, "Fracture Characteristics, Hardness, and Grain Size of Five Polycrystalline Alumina Orthodontic Brackets," Master's Thesis, The Ohio State University, Columbus, Ohio, Title Page, Abstract, Table of Contents, pgs. 1-47 (1999).
GBR	Rhodes, et al., "Hot-Working of Aluminum Oxide: II, Optical Properties," <i>Journal of American Ceramic Society</i> , 1974; Vol. 58, No. 1-2: pgs. 31-34.
GBR	Rhodes, et al., "Segregation of Magnesium to the Internal Surface of Residual Pores in Translucent Polycrystalline Alumina," <i>Journal of American Ceramic Society</i> , 1992; Vol. 75, Issue 7: pgs. 1796-1800.
GBR	Rhodes, et al., "Sintering of Translucent Alumina in a Nitrogen-Hydrogen Gas Atmosphere," <i>Journal of American Ceramic Society</i> , 2000; Vol. 83, Issue 7: pgs. 1641-1648.
GBR	Van Vlack, "Elements of Materials Science and Engineering," 6 <sup>th</sup> Edition, pgs. 217-219, 1989.

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